

SG5.0/7.0/8.0/10RT

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Lower startup & wider MPPT voltage
- Compatible with bifacial modules
- Built-in PID recovery function



SMART MANAGEMENT

- Smart IV curve scanning
- 24 / 7 Live monitoring
- Remote firmware updates



SAFE AND DURABLE

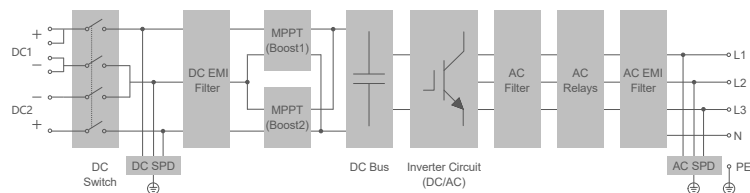
- Quick arc fault circuit interrupter
- Build-in Type II DC & AC SPD
- High anti-corrosion rating C5



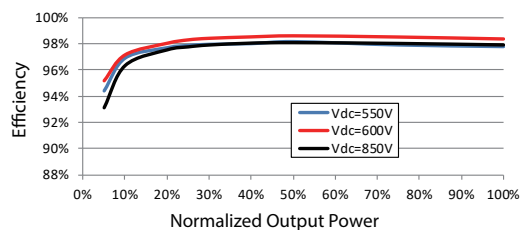
EASY AND USER FRIENDLY

- 18 kg compact design
- Unique push-in connectors
- Fast and easy commissioning via App

CIRCUIT DIAGRAM(SG10RT)



EFFICIENCY CURVE



Type designation	SG5.0RT		SG7.0RT	SG8.0RT	SG10RT
Input (DC)					
Recommended max. PV input power	7.5 kWp		10.5 kWp	12 kWp	15 kWp
Max. PV input voltage	1100 V *				
Min. PV input voltage / Start-up input voltage	180V / 180V				
Rated PV input voltage	600 V				
MPP voltage range	160 V – 1000 V				
No. of independent MPP inputs	2				
No. of PV strings per MPPT	1 / 1	2 / 1	2 / 1	2 / 1	
Max. PV input current	25 A (12.5 A / 12.5 A)	37.5 A (25 A / 12.5 A)			
Max. DC short-circuit current	36 A (18 A / 18 A)	54 A (36 A / 18 A)			
Max. current for input connector	30 A				
Output (AC)					
Rated AC output power	5000 W	6999 W	8000 W	9999 W	
Max. AC output apparent power	5500 VA	6999 VA	8000 VA	9999 VA	
Rated AC output apparent power	5500 VA	6999 VA	8000 VA	9999 VA	
Max. AC output current	7.6 A	10.6 A	12.2 A	15.2 A	
Rated AC output current(at 230V)	7.2 A	10.1 A	11.6 A	14.5 A	
Rated AC voltage	3 / N / PE, 230 / 400 V				
AC voltage range	180V – 276 V / 311 V – 478 V				
Rated grid frequency	50 Hz / 60 Hz				
Grid frequency range	45 – 55 Hz / 55 – 65 Hz				
Harmonic (THD)	< 3 % (at rated power)				
Power factor at Rated power / Adjustable power factor	>0.99 / 0.8 leading – 0.8 lagging				
Feed-in phases / Connection phases	3 / 3-N-PE				
Efficiency					
Max.efficiency / European efficiency	98.4% / 97.4%	98.4% / 97.7%	98.5% / 97.8%	98.5% / 97.9%	
Protection&Function					
Grid monitoring	Yes				
DC reverse connection protection	Yes				
AC short-circuit protection	Yes				
Leakage current protection	Yes				
Surge Protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
DC switch	Yes				
PV String current monitoring	Yes				
Arc fault circuit interrupter (AFCI)	Yes				
PID recovery function	Yes				
DC terminal protective cover	Yes				
General Data					
Dimensions (W*H*D)	370 * 480 * 195 mm				
Weight	18 kg				
Mounting method	Wall-mounting bracket				
Topology	Transformerless				
Degree of protection	IP65				
Corrosion	C5				
Operating ambient temperature range	-25 °C to 60 °C				
Allowable relative humidity range (non-condensing)	0% – 100%				
Cooling method	Natural cooling				
Max. operating altitude	4000 m				
Display	LED				
Communication	WLAN / Ethernet / RS485 / DI / DO				
DC connection type	MC4 (Max. 6 mm²)				
AC connection type	Plug and play				
Compliance	IEC 62109-1/2, AS/NZS 4777.2:2020				
Country of manufacture	China				

* The inverter enters the standby state when the input voltage ranges between 1,000V and 1,100V. If the maximum DC voltage in the system can exceed 1000V, the MC4 connectors included in the scope of delivery must not be used. In this case MC4 Evo2 connectors must be used.